

GenCore version 5.1.6
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OW protein - nucleic search, using frame_plus.p2n model

Run on: August 23, 2003, 17:21:34 ; Search time 256 Seconds
(without alignments)
3690.638 Million cell updates/sec

Title: US-09-745-506-37
Perfect score: 1799
Sequence: 1 MDLKALESINLSPASISFAE.....LENKINIILSETDRDPIQVY 350

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2552756 segs, 1349719017 residues
Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+ p2n.model -DEV=rlh
-Q=/cgn2.1/USPTO.spool/US09745506/runat.22082003_104400_7027/apf-query.fasta.1.519
-DB=N.Geneseq.19Jun03 -QFWT=fastap -SUFFIX=p2n.rng -MINMATCH=0.1 -LOOPEL=0
-LOOPEXT=0 -ONITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALLIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09745506.ecgn.1.1.0.tunat.22082003.104400.7027 -NCPU=6 -ICPU=3
-NO_MMAP -LARGEDUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : N.Geneseq.19Jun03:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1799	100.0	1053	22	AAH52212	Human AFP protein
2	1799	100.0	1574	22	AAH16397	Human CDNA sequenc
3	1799	100.0	1636	22	AAK60866	Human Immune/haema
4	1799	100.0	1739	23	ABV23243	Human prostate exp
5	1799	100.0	1739	23	ABV29087	Human prostate exp
6	1793	99.7	1554	22	AA544644	Human full-length
7	1763	98.0	1398	22	AA599945	Human gene express
8	1725.5	95.9	1385	24	AB60919	Human protein kina
9	1209.5	67.2	1686	23	AA585172	DNA encoding novel
10	826.5	45.9	796	22	AAH07192	Human CDNA clone (
11	737	41.0	14969	22	AAK78763	Human Immune/haema
12	644	35.8	462	22	AAI23953	Human breast cance
13	602	33.5	514	22	AAI15105	Human breast cance
14	578	32.1	1011	23	ABJ07427	Drosophila melanog
15	578	32.1	2967	23	ABJ10022	Drosophila melanog
16	538	32.1	3011	23	ABJ07426	Human contig polyn
17	538	29.9	513	22	AA544816	Bovine EST associa
18	467	26.0	394	25	ABX45683	Human breast cell
19	391	21.7	465	22	ABA57019	Human foetal liver
20	391	21.7	465	22	ABA57019	Human brain expres
21	391	21.7	465	22	AAK05073	Probe #14347 for g
22	391	21.7	465	22	AAI15235	Probe #14347 used t
23	391	21.7	465	22	AAI04973	Human liver single
24	391	21.7	465	23	ABS30297	DNA encoding novel
25	366	21.5	249	21	AA25260	Human CDNA encodin
26	370	20.6	208	22	ABA51524	Human breast cell
27	370	20.6	208	22	ABA69581	Human foetal liver
28	370	20.6	208	22	AAK1792	Human brain expres
29	370	20.6	208	22	AAI24414	Probe #14347 for g
30	370	20.6	208	22	AAI09950	Probe #9941 used t
31	370	20.6	208	23	ABA53283	Human liver single
32	362	20.1	465	23	AA585169	DNA encoding novel
33	330	18.3	633	22	AA534287	Human CDNA encodin
34	305	17.0	1104	24	ABN91378	Staphylococcus epi
35	305	17.0	1104	22	AAH55004	S. epidermidis gen
36	300	16.7	4159	20	AAI12944	Enterococcus faeca
37	300	16.7	4159	24	AB598739	S. epidermidis ope
38	296	16.5	1083	22	AA533778	DNA encoding novel
39	291	16.2	522	23	AA585171	Propionibacterium
40	289.5	16.1	3408	23	AA559566	S. epidermidis gen
41	288	16.0	3441	22	AAH54443	Listeria innocua c
42	256	14.2	495269	24	ABO67195	Listeria innocua c
43	256	14.2	3011308	24	ABO69245	S. epidermidis ope
44	249	13.8	1131	22	AAH53356	S. epidermidis gen
45	249	13.8	3014	22	AAH54966	S. epidermidis gen

ALIGNMENTS

RESULT 1
AAH52212
ID AAH52212 standard; CDNA; 1053 BP.
XX
XX AAH52212:
AC
XX
XX
DT 10-SEP-2001 (first entry)
XX
XX Human AFP protein encoding CDNA sequence SEQ ID NO:239.
XX
XX Human; secreted protein; secretion; bacterial cell; fungal cell;
KW eukaryotic cell; fusion protein; protein; maltose binding protein;
KW immunoglobulin constant region; polypeptide tag; ss.
XX
XX Homo sapiens.
OS
XX
XX PN WO200129221-A2.

XX Primer sets for synthesizing polynucleotides, particularly the 5602
PT full-length cDNAs defined in the specification, and for the detection
PT and/or diagnosis of the abnormality of the proteins encoded by the
PT full-length cDNAs -
XX
XX
XX

claim 8; SEQ ID 15359; 2537pp + CD ROM; English.

CC The present invention describes primer sets for synthesizing 5602
CC full-length cDNAs defined in the specification. Where a primer set
CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
CC to the complementary strand of a polynucleotide which comprises one of
CC the 5602 nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in
CC the specification. The primer sets can be used in antisense therapy and
CC in gene therapy. The primers are useful for synthesizing polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to
CC AAB95893 represent human amino acid sequences; and AAH13632 to AAH13632
CC represent oligonucleotides, all of which are used in the exemplification
CC of the present invention.

XX
SQ Sequence 1574 BP; 420 A; 361 C; 372 G; 421 T; 0 other;

Alignment Scores:

Pred. No.: 4,62e-178 Length: 1574
Score: 1799.00 Matches: 350
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 22 Gaps: 0

US-09-745-506-37 (1-350) x AAH16397 (1-1574)

QY 1 MetAspLeuLysAlaLeuLeuSerSerLeuAsnAspPheAlaSerLeuSarpheAlaGlu 20
DB 271 ATGGATTGAGGCTCTCTTCTCTGTAATGATGATTGCACTCTCTGTTGCTGAG 330
QY 21 SerTPAspAsnValGlyLeuLeuValGluProSerProProHisThrValAsnThrLeu 40
DB 331 AGTTGGACAAATGTTGATTACTGCGTGAACCAACCCACACATCACTGTAATATACATC 390
QY 41 PheLeuThrAsnAspLeuThrGluGluValMetGluGluValLeuGlnLysAlaAsp 60
DB 391 TTCCTACCAATGACCTGACTGAGGAGATGATGAGAGAGGTGCTGCAAAAGAGGAC 450
QY 61 LeuLeuLeuSerTyrlHisProProIlePheArgProMetLysArgIleThrTPAsnThr 80
DB 451 CTCATCTCTCTCCACATCGCGCTATCTCCGACCATGAGGAGCAATACCTGGAACACA 510
QY 81 TrpLysGluArgLeuValIleArgAlaLeuGluAsnArgValGlyIleTyrlSerProHis 100
DB 511 TGGNAGGACGCGCTGCTGATCCGCGCTGAGAACAGAGTCCGTAATCTCTCTCTCAT 570
QY 101 ThrAlaTyrlAspAlaIleProGlnGlyValAsnAspTrpLeuAlaLysGlyLeuGlyAla 120
DB 571 AAGCCTTAATGATCTCTGCGCCGAGGCGCTCAACACACTGGTGGCTAAAGGCTTGGAGCT 630
QY 121 CysThrSerArgProIleHisProSerLysAlaProAsnTyrlProThrGluGlyAsnHis 140
DB 631 TGTACCTCCAGGCGCATACATCTCTCCAAAGCTCCCACTACCTTACAGGAGAAACAC 690
QY 141 ArgValGluPheAsnValAsnTyrlThrGlnAspLeuAspLysValMetSerAlaValLys 160
|||||

DB 691 CGAGTAGAATTCAGCTTAACCTACACCAAGACCTGGACAAAGATCATGTCTGACATGAA 750
QY 161 GlyTlAspGlyValSerValThrSerPheSerAlaArgThrGlyLysGlnGluGlnThr 180
DB 751 GGAATTTAGAGGCTTTCTCTGCTCACTCTTTTTCGTAGGACTGTGATGAGAAACAA 810
QY 181 ArgIleAsnLeuAsnGlyThrGlnLysAlaLeuMetGluValValAspPheLeuSerArg 200
DB 811 CGAATTAATCTGAATTTGACTCAGAGGCTTTGATCAGAGGTGATATTTCTTCCCG 870
QY 201 AsnLysGlnLeuTyrlGlnIleThrGluIleLeuSerLeuGluLysProLeuLeuHis 220
DB 871 AACAAACACTTATATCAGAAAGACGAAATCTGTCACTGGAGAAAGCTTGTCTTACAT 930
QY 221 ThrGlyMetGlyArgLeuGlySerThrLeuAspGluSerValSerIleAlaThrMetIleAsp 240
DB 931 ACTGGAATGGAGGCTTATGACACATGATGAATCTGTCTCCCTGGCAACCAAGATTTGAT 990
QY 241 ArgIleLysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyValGlyArgThr 260
DB 991 CGAATTAATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1050
QY 261 LeuGluSerGlnValLysValValAlaLeuGlyLysGlySerGlySerValLeuGln 280
DB 1051 TTGAGCTCTCAAGTCAAAAGCTGTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1110
QY 281 GlyValGluAlaAspLeuTyrlThrGlnGluMetSerHisAspThrLeuAspAla 300
DB 1111 GGTGTGAGGCTGACCTTTTACCTCAGGATGATGATGATGATGATGATGATGATGATGAT 1170
QY 301 AlaSerGlnGlyLysAsnValIleLeuGlyLysHisSerAsnThrGluArgGlyPheLeu 320
DB 1171 GCTTCCCAAGGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1230
QY 321 SerAspLeuArgAspMetLeuAspSerHisLeuGluAsnLysIleAsnIleLeuSer 340
DB 1231 TCTGACCTTCGAAATATGCTGATTTCTCACTTGAGAAATATATATATATATATATCA 1290
QY 341 GluThrAspArgAspProLeuGlnValVal 360
DB 1291 GAGACTGACAGGAGCCCTCTTCAGGTGTGTA 1320
|||||

RESULT 3
AAK60866
ID AAK60866 standard; cDNA; 1696 BP.
XX
AC AAK60866;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human Immune/haematopoietic antigen encoding cDNA seq ID NO:5926.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytosolic; gene therapy; vaccine; metastasis; ss.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
PD 09-AUG-2001.
PF 17-JAN-2001; 2001WO-US01354.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.

expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting the
 CC the nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially
 CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
 CC to AAK87694 represent human immune/hematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169
 CC represent sequences used in the exemplification of the present invention.

XX Sequence 1696 BP; 510 A; 369 C; 379 G; 435 T; 3 other;

Alignment Scores:

Pred. No.:	5,15e-178	Length:	1696
Score:	1799.00	Matches:	350
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	22	Gaps:	0

US-09-745-506-37 (1-350) x AAK60866 (1-1696)

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OY 1 MetAspLeuAlaLeuSerSerLeuAsnAspPheAlaSerLeuSerPheAlaGlu 20
DB 307 ATGGAATTGAGGCTCTCTTCTTCTGGAATGATTTGCAATCCCTCGTTGGTGAG 366
OY 21 SerTPAspAsnValGlyLeuLeuValGluProSerProProHisThrValAsnThrLeu 40
DB 367 ACTTGGGACAAATGTTGATGCTGAGGACCAACCAAGCCACATCTGTAATATACATC 426
OY 41 PheLeuThrAsnAspLeuThrGluGluValMetGluGluValLeuGlnLysLysAlaAsp 60
DB 427 TTCGTGACCAATGACTGACTGAGGAGGATGAGAGAGAGTCTGCAAAAGAGGACAGAC 486
OY 61 LeuIleLeuSerThrHisProProIlePheArgProMetLysArgIleThrTrpAsnThr 80
DB 487 CTCATCTCTCTTACCATCCGCTTATCTCCGACCATGAGGAGCATATACCTGAGACACA 546
OY 81 TrpLysGluArgLeuValIleArgAlaLeuGluAsnArgValGlyIleTyrSerProHis 100
DB 547 TGGAGGAGCGCTGGTGTATCCGGGCTGAGAAACAGAGTGGTCTACTCTCTCCAT 606
OY 101 ThrAlaTyrAspAlaAlaProGlnGlyValAsnAsnTrpLeuAlaLysGlyLeuGlyAla 120
DB 607 ACAGCCTATGATGCTGCGCCGACGCGCTCAACAATGTTGGCTTAAAGGCTTGGAGCT 666
OY 121 CysThrSerArgProIleHisProSerLysAlaProAsnTyrProThrgLysAsnHis 140
DB 667 TGTACTCCAGGCGCCATCATCTTCCAAAGCTCCCAACTACCTTACAGGGGAAACAC 726
OY 141 ArgValGluPheAsnValAsnTyrThrGlnAspLeuAspLysValMetSerAlaValLys 160
DB 727 CGAGTAGAATTCACGTTACTACACCAAGACCTGAGCAAAAGTCAATGTGTGAGTGAAA 786
OY 161 GlyIleAspGlyValSerValThrSerPheSerAlaArgThrGlyGlnGluGlnThr 180
DB 787 GGAATTTGACGGTGTCTGTCACTTCTTTTCTGCGAGACGTGATATAGGAACAACAA 846
OY 181 ArgIleAsnLeuAsnCysThrGlnLysAlaLeuMetGluValValAspPheLeuSerArg 200
DB 847 CGGATTAATCTGAATGTACTCAGAAAGCTTTGATCAGCTGTGATATTTCTTCCCG 906
OY 201 AsnLysGlnLeuTyrGlnLysThrGluIleLeuSerLeuGluLysProLeuLeuHis 220
DB 907 AACCAACAACTTATCAGAAAGCGGAAATCTGTCTACTGAGAGAACCTTGTCTTACAT 966
OY 221 ThrGlyMetGlyArgLeuSerThrLeuAspGluSerValSerLeuAlaThrMetLeuAsp 240
DB 967 ACTGGATGGAGCGGTTATGACACACTGGATGAATCTGTCTCCCTGGCAACCAATGATGAT 1026
OY 241 ArgIleLysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyValGlyArgThr 260
  
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DB 1027 CGAATTAAGAACACCTAAACTATCTATATCTGCTTACCCCTGGGTGGGAGAAC 1086
OY 261 LeuGluSerGlnValLysValValAlaLeuCysAlaGlySerGlySerValLeuGln 280
DB 1087 TTAGAGCTCTCAAGTCAAAATCGGCGCCGTGTGCGTTCGGAGCGCTTCTGCAAG 1146
OY 281 GlyValGluAlaAspLeuThrLeuThrGlyGluMetSerHisHisAspThrLeuAspAla 300
DB 1147 GCGTTGAGGCTGACCTTTATCCACAGGTGAGATGTCCTCATCATATATCTTGGATGCT 1206
OY 301 AlaSerGlnGlyLysAsnValIleLeuCysGlnHisSerAsnThrGluArgGlyPheLeu 320
DB 1207 GCTTCCCAAGAAATAATGTCATCTGTGGAACACAGAACACCTGAGAGGCTTCTT 1266
OY 321 SerAspLeuArgAspMetLeuAspSerHisLeuGluAsnLysIleAsnIleLeuSer 340
DB 1267 TCTGACCTTCGAAATATGCTGTGATTCATCTTGAGAAATTAATTAATTAATCA 1326
OY 341 GluThrAspArgAspProLeuGlnValVal 350
DB 1327 GAGACTGACAGGAGCCCTTTCAGGTGCTA 1356

RESULT 4
ABV23243
ID ABV23243 standard; cDNA; 1739 BP.
XX
AC ABV23243:
XX
DT 16-SEP-2002 (first entry)
XX
DE Human prostate expression marker cDNA 2324.
XX
KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.
XX
OS Homo sapiens.
XX
PN MO200160860-A2.
XX
PD 23-AUG-2001.
XX
PF 20-FEB-2001; 2001WO-0505171.
XX
PR 17-FEB-2000; 2000US-183319P.
PR 16-MAR-2000; 2000US-189862P.
PR 25-MAY-2000; 2000US-207454P.
PR 09-JUN-2000; 2000US-211314P.
PR 18-JUL-2000; 2000US-219007P.
PR 13-DEC-2000; 2000US-255281P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Endege WO, Monahan JE;
XX
DR WPI; 2001-662795/76.
XX
PT Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer
XX
PS Claim 1; Page 4189-4190; 11750pp; English.
XX
XX
XX The invention relates to an isolated nucleic acid molecule (I) comprising
XX a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
XX specification or its complement. (I) is useful for:
XX (a) assessing whether a patient is afflicted with prostate cancer;
XX (b) monitoring the progression of prostate cancer in a patient;
XX (c) assessing the efficacy of a test compound to inhibit prostate
XX cancer in a patient;
XX (d) assessing the efficacy of a therapy for inhibiting prostate cancer
XX in a patient;
XX (e) selecting a composition for inhibiting prostate cancer in a patient;
  
```

CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
XX Sequence 1739 BP; 457 A; 389 C; 411 G; 473 T; 9 other;

SQ Sequence 1739 BP; 457 A; 389 C; 411 G; 473 T; 9 other;

Alignment Scores:

Pred. No.:	5	34e-18	Length:	1
Score:	1799	.00	Matches:	3
Percent Similarity:	100	.00%	Conservative:	0
Best Local Similarity:	100	.00%	Mismatches:	0
Query Match:	100	.00%	Indels:	0
DB:	23		Gaps:	0

US-09-745-506-37 (1-350) x ABV23243 (1-1739)

[illegible]

Oy	281	GIYALGALUALAAspLeuTYrLeuThGlySLuMetSerHISHisaspThrLeuASPALA	300
Db	1137	GGTPTTGAGGCTGACCTTTACCTACAGAGTAGATGTCCATCATGATACCTTGGAGCT	1196
Oy	301	AlASerGInGlyIleAsnValIleLeuGlySLuHisSerAsnThrGluArgGlyPheLeu	320
Db	1197	GCTTCCACAGAGAAATAATGTCTCTCTGTGTAAACACAGCAACACTGAACGAGGCTTCTT	1256
Oy	321	SerAspLeuArgAspMetLeuAspSerHisLeuGluAsnLysIleAsnIleIleLeuSer	340
Db	1257	TCTGACCTTCAGAGATGCTGTGATTCACATGGAGAATAAGATAAATAATATCTATCA	1316
Oy	341	GIuThrAspArgAspProLeuGluValVal	350
Db	1317	GAGACTGACAGGACCTCTTCAGGTGTA	1346

RESULT 5

ID ABV29087 standard; cDNA; 1739 BP

AC ABV29087;

DT 16-SEP-2002 (first entry)

DE Human prostate expression marker cDNA 29078.

KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;

22

XX
XX
750000150050XX
XX
33-AUG-2001

XX 20-FEB-2001 2001MO-HE05171
DE

17-FEB-2000. 2000HS-183319B
XX
DE

PR	16-MAR-2000; 2000US-189862P
DP	25-MAY-2000; 2000US-207454P

PR 09-JUN-2000; 2000US-211314P
PR 19-JUN-2000; 2000US-219007P

PR 13-DEC-2000; 200005-255281P
XX

PA (MILL-) MILLENNIUM PREDICTI
 VY

PI Schlegel R, Endege WO, Moh

DR WPI; 2001-662/95/16.
XX

PT prostate cells and correlating with presence of prostate cancer

Pt. For detecting presence of prostate cancer

PS Claim 1; page 61/0; 11/30pp; English
XX

CC The invention relates to all isolated nucleic acid molecule (1) comprising

CC (a) assessing whether a patient is afflicted with prostate cancer;
CC specification of its complement. (1) is useful for:

(c) assessing the efficacy of a test compound to inhibit prostate

CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;

CC (e) selecting a composition for inhibiting prostate cancer in a pa

CC (1) assessing the prostate cell carcinogenic potential of a compound

CC (n) assessing the aggressiveness or incidence of prostate cancer in patient:

(1) is also useful as a pharmacodynamic or pharmacogenomic marker

Sequence 1739 BP, 457 A, 389 C, 411 G, 473 T, 9 other;

Alignment Scores:

Pred. No.: 5,34e-178
Score: 1799.00
Percent Similarity: 100.008
Best Local Similarity: 100.008
Query Match: 100.00%

Length: 1739
Matches: 350
Conservative: 0
Mismatches: 0
Indels: 0
Gaps: 0

US-09-745-506-37 (1-350) x ABV29087 (1-1739)

```

QY 1 MetAspLeuValAlaLeuSerSerLeuAsnAspPheAlaSerLeuSerPheAlaGlu 20
Db 297 ATGATTTGAGGCTCTCTTCTTCTTGAATGACTTTCACCTCTCTGCTGCTGAG 356
QY 21 SerTTPAspAsnValGlyLeuValGluProSerProProHisThrValAsnThrLeu 40
Db 357 AGTTGGACAAATGCTGATTACTGTGGAACCAAGCCACACATCTGTAATACACTC 416
QY 41 PheLeuThrAsnAspLeuThrGluValMetGluGluValLeuGlnLysAlaAsp 60
Db 417 TTCCTACCAATGACTGACTGAGAGATGAGAGAGTGTGCAGAAAGAGCAGAC 476
QY 61 LeuLeuSerLeuSerThrAspProPheArgProMetLysArgLleThrTPAsnThr 80
Db 477 CTCATCTCTCTCCACCATCGGCTATCTTCGACCATGAGAGGCATTAACCTGGAACACA 536
QY 81 TPryLysGluArgLeuValLleArgAlaLeuGluAsnArgValLylleTyrSerProHis 100
Db 537 TGGAGAGAGCGCTGGTGAATCCGGGCTGGAGAACAGATCCGTATCTACTCTCTCAT 596
QY 101 ThrAlaTyrAspAlaAlaProGlnGlyValAsnAsnTyrPheLysGlyLeuGlyAla 120
Db 597 ACAGCTTATGATCTCTGCCCCAGGGCTGACACACTGGTGGCTTAAGGGCTTGAGCT 656
QY 121 CysThrSerArgProIleHisProSerLysAlaProAsnTyrProThrGluGlyAsnHis 140
Db 657 TGTACTCCAGGCGCATCATCTCTCCAAAGCTCCCACTACCTCAGAGGAGAACCCAC 716
QY 141 ArgValGluPheAsnValAsnTyrThrGlnAspLeuAspLysValMetSerAlaValLys 160
Db 717 CGAGTGAATTCACCTTAACTACACCAAGACCTGGACAAATCATGCTGCAGTGAATA 776
QY 161 GlyLleAspGlyValSerValThrSerPheSerAlaArgThrLysGlnGluGlnThr 180
Db 777 GGAATGACGGTGTCTGTCTCTCTCTCTCTGTGTAGGACTGTATAGGAACAACA 836
QY 181 ArgLleAsnLeuAsnCysThrGlnLysAlaLeuMetGlnValValAspPheLeuSerArg 200
Db 837 CGGATTAATCTGAATGTACTCTGAGAGGCTTTCATGAGGTGATGATTTCTTCCCGG 896
QY 201 AsnLysGlnLeuTyrGlnLysThrGluLleLeuSerLeuGlnLysProLeuLeuHis 220
Db 897 AACCAACCACTTATATGAGAGAGGAATTCGTCTACTGGAGAGAGCTTGTCTTACAT 956
QY 221 ThrGlyMetGlyArgLeuSerThrLleAspGluSerValSerLeuAlaThrMetLleAsp 240
Db 957 ACTGGAAATGGAGCGTTATGACACACTGATGAAATCTGTCTCCCTGGAGAACATGATGAT 1016
QY 241 ArgLleLysArgHisLeuLysLeuSerHisLleArgLeuAlaLeuGlyValGlyArgThr 260
Db 1017 CGAATTAATAAAGACACCTAAATATCTCATATTCGCTTATGACCTTGGGGTGGGAGAAC 1076
QY 261 LeuGluSerGlnValLysValValAlaLeuCysAlaGlySerLysSerValLleGln 280
Db 1077 TTAGACTCTCAATCAATCGTGGCCCTGTGTCTGTCTGTCTGGGAGCACTTCTGCAAG 1136
QY 281 GlyValGlyAlaAspLeuTyrLeuThrGlyGluMetSerHisLysPheThrLleAspAla 300
Db 1137 GGGTGTGAGGCTACCTTATCTCACAGAGTGAATGATCCCATCATATATTAATTTGGAGTCT 1196
QY 301 AlaSerGlnGlyLleAsnValLleLeuCysGlnHisSerAsnThrGluArgLysPheLeu 320

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Db 1197 GCTTCCCAAGCAATTAATGTCATCTCTGGAACACAGCAACACTGAAAGCCTTCTT 1256
QY 321 SerAspLeuArgAspMetLleAspSerHisLeuGluAsnLysLleAsnLleLleLeuSer 340
Db 1257 TCTGACCTTGAATATATGCTGATTCACCTTGGAGAAATGAATTAATATATCTATCA 1316
QY 341 GluThrAspArgAspProLeuGlnValVal 350
Db 1317 GAGACTGACAGGAGACCTTTCAGGTGTA 1346

RESULT 6
AAS44644
ID AAS44644 standard; DNA; 1554 BP.
AC AAS44644;
XX 18-DEC-2001 (first entry)
DE Human full-length polynucleotide sequence #69.
XX Mammal; human; rhesus monkey; baker's yeast; fission yeast; Norway rat;
KW mouse; Chinese hamster; African clawed frog; fruit fly; dog; leukemia;
KW cancer; lymphoma; neuroblastoma; autoimmune disorder; cell proliferation;
KW nervous system disorder; inflammatory disorder; cell differentiation; ds;
KW angiogenesis; stem cell growth factor; activin; inhibin; cartilage; burn;
KW genetic disorder; bone regeneration; tendon; ligament; tissue repair;
KW cytostatic; antirheumatic; antiarthritic; vulnery; antiinflammatory;
KW antibacterial; immunosuppressive; vasotropic; antiParkinsonian;
KW neuroprotective; osteoprotective; antidiabetic; antiallergic;
KW immunostimulant; analgesic; gene therapy.
XX
OS Homo sapiens.
XX
PN W0200164834-A2.
PD 07-SEP-2001.
PE 26-FEB-2001; 2001MO-US04926.
PF 28-FEB-2000; 2000US-0515126.
PR 18-MAY-2000; 2000US-0577409.
PR 17-JUN-2000; 2000US-0597707.
PR 14-JUL-2000; 2000US-0616807.
PR 19-SEP-2000; 2000US-0664641.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;
PI Xue AJ, Yang Y, Wehrman T, Wang J, Ma Y, Wang D, Chen R, Xu C;
PI Dmanac R;
XX
DR WPI; 2001-589862/66.
XX P-PSDB; AAU27744.
XX
PT Novel polypeptides and nucleic acids obtained from cDNA libraries
PT prepared from various human tissues, for diagnosis, treatment of
PT cancer, neurological, inflammatory disorders and for use in arrays for
PT detection.
XX
XX Claim 1; SEQ ID NO 69; 153bp; English.
XX
XX Sequences AAS44576-AAS44919 represent full-length polynucleotides and
XX contig polynucleotides encoding polypeptides of the invention. The DNA
XX and protein sequences are useful for the treatment, diagnosis and
XX prevention of various types of disorder in a mammalian subject such as a
XX human, dog, monkey, mouse, hamster or rat. The disorders include cancers
XX such as leukemia, lymphoma and neuroblastoma, autoimmune disorders such
XX as multiple sclerosis, connective tissue disease, rheumatoid arthritis,
XX diabetes mellitus, allergic rhinitis, asthma and eczema, nervous system
XX disorders such as Parkinson's disease, Alzheimer's disease, Huntington's
XX chorea, amyotrophic lateral sclerosis, spinal muscular atrophy and
XX Wernicke disease, inflammatory disorders such as nephritis, Crohn's

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CC disease, ischaemia-reperfusion injury, shock, sepsis and inflammatory
 CC bowel disease. The sequences exhibit activity relating to angiogenesis,
 CC cell proliferation, cell differentiation, stem cell growth factor,
 CC activin or inhibin. Therefore, they can be used to manipulate stem cells
 CC in culture to give rise to neuroepithelial cells that can be used to
 CC augment or replace cells damaged by illness, accidental damage or genetic
 CC disorders. The sequences may also be used for regeneration of bone,
 CC cartilage, tendons and ligaments and in tissue repair and burn healing.
 CC Note: Some sequences for this patent did not form part of the printed
 CC specification, but were obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

SQ Sequence 1554 BP; 428 A; 358 C; 346 G; 422 T; 0 other:

Alignment Scores:

Pred. No.: 1,92e-177 Length: 1554
 Score: 1793.00 Matches: 349
 Percent Similarity: 99.71% Conservative: 0
 Best Local Similarity: 99.71% Mismatches: 1
 Query Match: 99.67% Indels: 0
 DB: Gaps: 0

US-09-745-506-37 (1-350) x AAS44644 (1-1554)

QY 1 MetaspLeuYsAlaLeuLeuSerSerLeuAsnAspPheAlaSerLeuSerPheAlaGlu 20
 DB 236 ATGATTTGAAGGCTCCCTTCTTCTTGAATGACCTTTCATCCCTCTCTTGGCTGAG 295
 QY 21 SerTrpAspAsnValGlyLeuLeuValGluProSerProPheHisThrValAsnThrLeu 40
 DB 296 AGTTGGGACATGTTGGATTTCGTGTGAACCAACCCACCATCTGTAATATACACTC 355
 QY 41 PheLeuThrAsnAspLeuThrGluGluValMetGluGluValLeuGlnLysAlaAsp 60
 DB 356 TTCCTGACCAATGACCTGACAGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG 415
 QY 61 LeuLeuLeuSerTrpHisProPheArgProMetLysArgGlyLeuThrTrpAsnThr 80
 DB 416 CTCATCTCTCTCCATCCGCTGCTATCTTCCGACCACTGAGAGAGAGAGAGAGAGAG 475
 QY 81 TrpLysGluArgLeuValIleArgAlaLeuGluAsnArgValGlyIleTrpSerProHis 100
 DB 476 TGAAG 535
 QY 101 ThrAlaTrpAspAlaAlaProGlnGlyValAsnAsnTrpLeuAlaLysGlyLeuGlyAla 120
 DB 536 ACAGCGCTATGATGCTGCGCCAGGCGCTCAACAACATGTTGGCTAAAGGCGCTTGACCT 595
 QY 121 CysTrpSerArgProIleHisProSerLysAlaProAsnTrpProThrGluGlyAsnHis 140
 DB 596 TGATCTCCAGGCCCATATCACTCTTCCAAAGCTCCCACTACCTACAGAGAGAGAGAGAG 655
 QY 141 ArgValGluPheAsnValAsnTrpThrGlnAspLeuAspLysValMetSerAlaValLys 160
 DB 656 CGAGTAGAATTCACAGTTACTACACCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 715
 QY 161 GlyIleAspGlyValSerValThrSerPheSerAlaArgThrGlyAsnGluGluGlnThr 180
 DB 716 GGAATTCAGCGTGTTCGTCACTCTTCTTCTGCTAGACAGTGAAGAGAGAGAGAGAGAG 775
 QY 181 ArgIleAsnLeuAsnCysThrGlnLysAlaLeuMetGlnValValAspPheLeuSerArg 200
 DB 776 CGGATTAATCTGAATTTGACTCAGAAAGCTTTGATGAGGCTGTGATTTCTTCCCGG 835
 QY 201 AsnLysGlnLeuTrpGlnLysThrGluLeuSerLeuGluLysProLeuLeuLeuHis 220
 DB 836 AACCAACACTTATCAG 895
 QY 221 ThrGlyMetGlyArgLeuCysThrLeuAspGluSerValSerLeuAlaThrMetIleAsp 240
 DB 896 ACTGGAATGGAGCGGTTATGACACATGATGATGATGATGATGATGATGATGATGATGAT 955
 QY 241 ArgIleLysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyValGlyArgThr 260

RESULT 7

AAFS9945
 ID AAF59945 standard; cDNA; 1398 BP.
 AC AAF59945;
 AC AAF59945;
 DT 04-MAY-2001 (first entry)

DB 956 CGAATTAAGAGACCTTAACATATTCCTTACCCCTTGGGGGAGAAC 1015
 QY 261 LeuLysSerGlnValLysValAlaLeuCysAlaGlySerGlySerValLeuGln 280
 DB 1016 TTACAGCTCAAGTCACAAAGTCGTGCGCTGTGTCTGTGTGTGTGTGTGTGTGTGTGT 1075
 QY 281 GlyValGluAlaAspLeuTrpLeuThrGlyGluMetSerHisAspThrLeuAspAla 300
 DB 1076 GGTGTGAGGCTGACCTTACCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1135
 QY 301 AlaSerGlnGlyIleAsnValIleLeuCysGluHisSerAsnThrGluArgGlyPheLeu 320
 DB 1136 GCTTCCCAAGAGATTAATGTCATCTCTGTGAACACACCACTGAACAGAGCTTCTT 1195
 QY 321 SerAspLeuArgAspMetLeuAspSerHisLeuGluAsnLysIleAsnIleLeuSer 340
 DB 1196 TCTGACCTTCAGATATGCTGATTCACATGAGATATGATATATATATATATATATATAT 1255
 QY 341 GluThrAspArgAspProLeuGlnValVal 350
 DB 1256 GAGACTGACAGGAGACCTTTCAGGTGCTA 1285

Human gene expression regulatory factor-related protein hNIF3-s cDNA.
 Human gene expression regulatory factor-related protein; hNIF3-s;
 NGG1-Interacting factor; haemopoietic stem cell; preparation;
 detection; ss.
 Homo sapiens.
 CN1272543-A.
 08-NOV-2000.
 11-APR-2000; 2000CN-0115369.
 11-APR-2000; 2000CN-0115369.
 (NANF-) NANFANG RES CENT STATE HUMAN GENE GROUP.
 LI N, Xiao H, Liu F;
 WPI; 2001-183596/19.
 P-PSDB; AAB60663.
 Human gene expression regulatory factor related protein and its coded
 sequence.
 Claim 1; Page 18-19; 20pp; Chinese.
 The invention relates to a novel human gene expression regulatory
 factor-related protein, hNIF3-s (NGG1-Interacting factor, AAB60663),
 and cDNA encoding it (AAF59945). hNIF3-s is expressed in haemopoietic
 stem cells. The invention also relates to the preparation of hNIF3-s
 proteins and nucleic acids, and the detection of hNIF3-s proteins and
 nucleic acids in a sample. The present sequence represents cDNA encoding
 hNIF3-s.

SQ Sequence 1398 BP; 365 A; 331 C; 342 G; 360 T; 0 other:

Alignment Scores:
 Pred. No.: 2.26e-174 Length: 1398
 Score: 1763.00 Matches: 349
 Percent Similarity: 99.15% Conservative: 1

Best Local Similarity: 98.87% Mismatches: 0
 Query Match: 98.00% Indels: 3
 DB: 22 Gaps: 0
 US-09-745-506-37 (1-350) x AAF59945 (1-1398)

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OY 1 MetAspLeuAlaLeuLeuSerSerLeuAsnAspPheAlaSerLeuSerPheAlaGlu 20
DB 236 ATGGAATTGAAGGCTCTCTTCTTCTGTAATGACTTGCATCCCTCGCTTGCTGAG 295
OY 21 SerTPAspAsnValGlyLeuLeuValGluProSerProHisThrValAsnThrLeu 40
DB 296 AGTTGGGACAAATGTTGGATTACTGGTGAACCAAGCCACACACTACTATAATACACTC 355
OY 41 PheLeuThrAsnAspLeuThrGluGluValMetGluGluValLeuGluInlyAsnAlaAsp 60
DB 356 TTCCTGACCAATGACTGACTGAGAAAGATGAGAGAGAGTCTGCAAAAGAGGACAGAC 415
OY 61 LeuAlaLeuSerThrHisProPheArgProMetLysArgLle-ThrTPAsnTh 80
DB 416 CTCATTCTCTCTTACCATCCGCTATCTTCCGACCATGAAAGCGATTAACTGGAAAC 475
OY 80 rTrp-LysGluArgLeuValIleArgAlaLeuGluAsnArgValGlyIleArgSerPro 99
DB 476 ATGGGAAGGAGCGCGCTGGATCCGCGCTGGAGAACAGAGTCGGATTAATCTCTCT 535
OY 100 HisThrAlaTyAspAlaAlaProGluGluValAsnAsnThrPheAlaLysGlyLeuGly 119
DB 536 CATACAGCCTATGATGCTGCGCCGACGAGGCTCACACACTGGTGGCTAAAGGCTTGA 595
OY 120 AlaCysThrSerArgProIleHisProSerLysAlaProAsnTyProThrGluGluAsn 139
DB 596 GCTTGACTCTCAGGCGCCATACATCTTCCAAAGCTCCCACTACCTGACAGAGGAAC 655
OY 140 HisArgValGluPheAsnValAsnTyThrGluAspLeuAspLysValMetSerAlaVal 159
DB 656 CACCGAGTGAATTCACCTTAACCTACACCAAGCTGCAAGTCAATGCTCCAGTGG 715
OY 160 LysGlyIleAspGlyValSerValThrSerPheSerAlaArgThrGlyGluGluGlu 179
DB 716 AAGGAAATGACGCGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 775
OY 180 ThrArgIleAsnLeuAsnCysThrGluInlyAsnAlaLeuMetGluValAlaAspPheLeuSer 199
DB 776 ACACGGAATTAATCTGAATGTACTGAGAGGCTTTGATGACAGTGTGTAATTTCTTTC 835
OY 200 ArgAsnLysGluLeuTyGluInlyThrGluIleLeuSerLeuGluLysProLeuLeu 219
DB 836 CGGAACAAACAACTTATCAGAAAGACGAAATCTGTCTACTGGAGAAAGCTTTGGCTTCA 895
OY 220 HisThrGlyMetGlyArgLeuCysThrLeuAspGluSerValSerLeuAlaThrMetIle 239
DB 896 CATACTGGAATGGAGCGTTATGACACACTGATGAATCTGTCTCCCTGGCAACCAATGATT 955
OY 240 AspArgIleLysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyAlaArg 259
DB 956 GATCGAATTAAGAAAGACACTAAACATATCTCAATTCGTTAGCCCTTGGGGGGGAGAA 1015
OY 260 ThrLeuGluSerGluValLysValAlaAlaLeuCysAlaGlySerGlySerValLeu 279
DB 1016 ACCTTAGACTCTCAAGTCAAACTCGGGCCCTGTGTGCTGGTCTGGGAGACAGCTTCTG 1075
OY 280 GlnGlyValGluAlaAspLeuThrLeuThrGlyGluMetSerHisHisAspThrLeuAsp 299
DB 1076 CAGGGGTGTGAGGCTGACCTTTAACTCACAAGGTGAGATGTCCTCATATATATCTTGGAGT 1135
OY 300 AlaAlaSerGlnGlyIleAsnValIleLeuCysGluHisSerAsnThrGluArgGlyPhe 319
DB 1136 GCTGGCTTCCCAAGAAATATGTCATCTCTGGAACACAGACACCTGAAAGAGGCTTT 1195
OY 320 LeuSerAspLeuArgAspMetLeuAspSerHisLeuGluAsnLysIleLeu 339
DB 1196 CTTTCTGACCTTCGAGATATGCTGATTCCTCACTTGGAGAAATGAATATATATATCTTA 1255

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OY 340 SerGluThrAspArgAspProLeuGluValVal 350
 DB 1256 TCAGAGACTGACAGGAGCCCTTCTCAGGTGGA 1288

RESULT 8

ABL60919

ID ABL60919 standard; cDNA; 1385 BP.

AC ABL60919;

DC 23-SEP-2002 (first entry)

DE Human protein kinase C 27.17 polypeptide encoding cDNA.

KW Human; protein kinase C 27.17; protein metabolism; gene; ss.

OS Homo sapiens.

FH Key Location/Qualifiers

FT CDS 389..1132 /tag= a /product= "protein kinase C 27.17 polypeptide"

XX CN1333355-A.

PD 30-JAN-2002.

XX 07-JUL-2000; 2000CN-0117049.

XX 07-JUL-2000; 2000CN-0117049.

PA (SHAN-) SHANGHAI BIODOOR GENE DEV CO LTD.

XX Mao Y, Xie Y;

XX WPI; 2002-305609/35.

XX P-PSDB; ABB08182.

PT Human protein kinase C 27.17 polypeptide and its encoding

XX polynucleotide, for treating e.g. protein metabolism disturbance -

XX Claim 6; Page 25-26 (disclosure); 33pp; Chinese.

CC The invention relates to a human protein kinase C 27.17 polypeptide and

CC its encoding polynucleotide. The polypeptide can be expressed by standard

CC DNA recombination. The polynucleotide, polypeptide and its antagonist are

CC useful for treating e.g. protein metabolism disturbance. The present

CC sequence represents the human protein kinase C 27.17 polypeptide encoding

CC cDNA.

XX

SQ Sequence 1385 BP; 375 A; 324 C; 308 G; 378 T; 0 other;

Alignment Scores:

Pred. No.: 1.87e-170 Length: 1385

Score: 1725.50 Matches: 344

Percent Similarity: 98.57% Conservative: 1

Best Local Similarity: 98.29% Mismatches: 5

Query Match: 95.91% Indels: 2

DB: 24 Gaps: 0

US-09-745-506-37 (1-350) x ABL60919 (1-1385)

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OY 1 MetAspLeuAlaLeuLeuSerSerLeuAsnAspPheAlaSerLeuSerPheAlaGlu 20
DB 82 ATGGAATTGAAGGCTCTCTTCTTCTGTAATGACTTGCATCCCTCGCTTGCTGAG 141
OY 21 SerTPAspAsnValGlyLeuLeuValGluProSerProHisThrValAsnThrLeu 40
DB 142 AGTTGGGACAAATGTTGGATTACTGGTGAACCAAGCCACACATATCTGTAATACACTC 201
OY 41 PheLeuThrAsnAspLeuThrGluGluValMetGluGluValLeuGluInlyAsnAlaAsp 60

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Db      202 TTCTGACCAATGACCTGACTGAGAGATGAGAGAGTGCTGCAAAAAGAGGACGAC 261
Qy      61 LeuileuSerTyrHisProProlSerPheArgIleThrTrpAsnThr 80
Db      262 CTGATTCCTCTCCATCCGCTATCTCGACCCATGAGGCCATTAACCTGGACACA 321
Qy      81 TrpYsgIuArgLeuValIleArgAlaLeuGluAsnArgValGlyIleTyrSerProHis 100
Db      322 TGGAGAGGAGCCCGGCGATCCGGGCTCGAGAAAGAGAGTCCGATCTCTCTCAT 381
Qy      101 ThrIleTyrAspAlaIleProGlnGlyValAsnAsnTrpLeuAlaIleGlyLeuGlyAla 120
Db      382 ACAGCCTATGATGCTGGCGCCCGAGGGGCTCAACAAGTGGTGAAGGGCTGGAGCT 441
Qy      121 CysThrSerArgProIleHisProSerLysAlaProAsnTyrProThrGluGlyAsnHis 140
Db      442 TGTACCTCCAGGCCATA-CATCTCTTCCAGCT-CCCACTTCCCTACAGAGAACCCAC 499
Qy      141 ArgValGluPheAsnValAsnTyrThrGlnAspLeuAspLysValMetSerAlaValLys 160
Db      500 CGAGTAGAATTCACAGCTTAACACCCAGACCTGGACAAAGTCATGTGCAGTGAAA 559
Qy      161 GlyIleAspGlyValSerValThrSerPheSerAlaArgThrGlyAsnGluGluThr 180
Db      560 GGAATGTACGGGTGTTCTGTCTCTCTTCTTCTGTCTAGAGCTGTAATGAGAACAAACA 619
Qy      181 ArgIleAsnLeuAsnCysThrGlnLysAlaLeuMetGlnValAlaPheLeuSerArg 200
Db      620 CGGATTAATCTGGAATGTGACAGAGGCTTGTGATCGAGGGTATGATTTCTTCCGG 679
Qy      201 AsnLysGlnLeuTyrGlnLysThrGluIleLeuSerLeuGluLysProLeuLeuHis 220
Db      680 AACAAACAATCTTATCAGAAAGACGAAATCTGTCTACAGGAGAGCCCTTCTCTACAT 739
Qy      221 ThrGlyMetGlyArgLeuCysThrLeuAspGluSerValSerLeuAlaThrMetLeuAsp 240
Db      740 ACTGGAATGGAGCGGTTATGACACACTGATGATGTGCTCCCTGGCAACCATGATGAT 799
Qy      241 ArgIleLysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyValGlyArgThr 260
Db      800 CGAATTAATAAGACCTTAACATATCTCATATTCCTTAAGCCCTTGGGGGTGGGGAAC 859
Qy      261 LeuGlnSerGlnValLysValValAlaLeuCysAlaGlySerGlySerValLeuGln 280
Db      860 TTAGAGTCTCAAGTCAAAGCGTGGCCCTGTGCTGTGCTGGGAGACGCTTCTCAG 919
Qy      281 GlyValGluAlaAspLeuTyrLeuThrGlyLysMetSerHisIleAspThrLeuAspAla 300
Db      920 GGTTGTGAGGCTGACCTTACCTCAGAGTGAGATGCCATCATGATTACTTGGATCT 979
Qy      301 AlaSerGlnGlyIleAsnValIleLeuGlySerGluHisSerAsnThrGluArgGlyPheLeu 320
Db      980 GCTTCCCAAGGAATTAATGTCATCTCTGTGAACACACACACAGAGAGGCTTCTT 1039
Qy      321 SerAspLeuArgAspMetLeuAspSerHisLeuGluAsnLysIleAsnIleLeuSer 340
Db      1040 TCTGACCTTCAGAGATGCTGATCTCATTCTGAGATTAAGATTAATATATCTATCA 1099
Qy      341 GluThrAspArgAspProLeuGlnValVal 350
Db      1100 GAGACTGACAGGAGCCCTCTTCAGGTGTA 1129

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RESULT 9
AAS85172/c
ID AAS85172 standard; cDNA; 1686 BP.

AC AAS85172:

DT 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #20976.

KM Human; chromosome mapping; gene mapping; gene therapy; forensic;

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KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-Oct-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
DR P-PSDB: ABG20985.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity.
XX
PS Claim 1; SEQ ID NO 20976; 103bp; English.
XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 1686 BP; 445 A; 397 C; 391 G; 452 T; 1 other:
XX

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Alignment Scores:
Pred. No.: 2,366-116 Length: 1686
Score: 1209.50 Matches: 308
Percent Similarity: 83.55% Conservative: 7
Best Local Similarity: 81.70% Mismatches: 32
Query Match: 67.23% Indels: 30
DB: 23 Gaps: 10

US-09-745-506-37 (1-350) x AAS85172 (1-1686)

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Qy      1 MetAspLeuLys-AlaIleuSerSerLeu-AsnAspPheAla---SerLeuSerPheA 19
Db      1383 ATGATTTGAGAGAGCTCTCTTCTCTCTGGAATGACCTTGTGCAATCCCTCTGCTTTG 1324
Qy      19 IagIuSerTrpAspAsn---ValGlyLeuLeuVal-GluPro-SerProProHis-ThrY 37
Db      1323 CTGAGAGTGGGAGACAATGTTGGGATTAAGTGGTGGAGCAAGGCCACACACATTAATG 1264
Qy      37 AlaSn---ThrLeuPheLeuThrAsnAspLeuThrGlu---GluValMetGluGluVal 55
Db      1263 TTAATTAACACTCTTCTCTGAGCAATGACTGACTGAGGAGAGATGAGGAGAGGTGC 1204

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QY 55 euglnllyls- AlaspleuileuSerTyr-HisProPro-Ilephe-ArgPromet 73
DB 1203 TCGAAAAGAGGCGACCTCATCTCTCTCCATCCACCTCGGCTTATCTCCGACCCAG 1144
QY 74 lys---ArgIleThrTrpAsnThrTrp-LysGluArgLeuValIleArgAlaLeuGlu 92
DB 1143 GAAGGGCGCTTAAACGGGAAACACATGGGAAGAGCCCGGCGATCGGGCTCTGGAGAA 1084
QY 92 nargValIleGlyIleTyrSerProHisThrIleTyrAspAlaIleProGluIleValAsn 112
DB 1083 CAGAGTGGTATCTACTCTCTCCATACACCTATGATGCTGGGCCCGACGGCGCTCAACA 1024
QY 112 ntrpleuAlaLysGlyLeuGlyAlaCysThrSerArgProIleHisProSerLysAla 132
DB 1023 CTGGTGGCTAAAGGCGCTTGAAGCTGTACCTCCAGCCCATACATCTTCCAAACTCC 964
QY 132 oasnTyrProThrGluGlyAsnHisArgValGluPheAsnValAsnTyrThrGlnAsp 152
DB 963 CACATACCTACAGAGGAAACACACCGAGTACGATTAACGTTAACTACACCCAAAGACCT 904
QY 152 u-AspLysValMetSer-AlaValLysGlyIle-AspGlyValSerValThrSerPhe 171
DB 903 GGGACAAAGTCAATCTGCGACATGAAAGAAATTTGACGGTCTTCTGACATCTCTTTTC 844
QY 171 talAargThrGlyAsnGluGluGlnThrArgIleAsnLeuAsnCysThrGlnLysAla 191
DB 843 TCGTAGAGTGTGTAATAGAGCAACAACACGAGTAACTGAAATGTGTACACAGAAAGCTTT 784
QY 191 umetGlnValIleAspPheLeuSerArgAsnLysGlnLeuTyrGlnLysThrGluIle 211
DB 783 GATGCGAGTGTAGATTTCTTCCGGAACAACATTTATACAAAGACGAAATTTCT 724
QY 211 uSerLeuGluLysProLeuLeuLeuHisThrGlyMetGlyArgLeuCysThrLeuAsp 231
DB 723 GTCACAGGAGAGGACCTTCTCTCTACATCTGAAATGGACGCTTGTGACACATGATGA 664
QY 231 uSerValSerLeuAlaThrMetIleAspArgIleLysArgHisLeuLysLeuSerHis 251
DB 663 ATCTGTCTCTCCGGAACCATGATGTGATGAAATAAACACACCTAAACTATCTCATAT 604
QY 251 eArgLeuAlaLeuGlyValGlyArgThrLeuGluSerGlnValIleValAlaLeu 271
DB 603 TCGCTTAGCCCTTGGGGTGGGAGAACCTTAGAGTCTCAAGTCAAAAGTCTGGCCCTGTG 544
QY 271 salAgiLysr-glySerSerValLeuGlnGlyValIleAspLeuTyrLeuThr--- 289
DB 543 TCGTGTCTTGGGGACACAGCTTCTGACAGGCTTGTAGGGCTGACCCCTTACTCACAG 484
QY 290 --GlyGluMetSerHisLysAspThrLeu-AspAlaIleSer-GlnGlyIle-AsnVal- 307
DB 483 TAGGTGAGATGTCCCATCATGATATTTGGGATGCTGCTCCCAAGAAATTAATGTCA 424
QY 308 IleLeuCysGlu---HisSerAsnThrGluArgGlyPhe---LeuSerAsp-LeuArg 325
DB 423 ATCTCTGTGAAACACACCAACACTGAACGAGGCTTCTCTCTCCCTCGGAGAG 364
QY 325 pMetLeuAsp---SerHisLeuGluAsnLysIleAsnIleIle---LeuSerGluThr 343
DB 363 TATGCTGGAATCCCTACCTTGAGAAATGAATATATATATCCATCCAGAGACCTGA 304
QY 343 pArgAspProLeu 347
DB 303 CAGGGACCTCTT 291

```

RESULT 10

AAH07192
ID AAH07192 standard; cDNA; 796 BP.

XX AAH07192;

XX 26-JUN-2001 (first entry)

XX Human cDNA clone (5'-primer) SEQ ID NO:4027.

```

XX XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
KW KM Homo sapiens.
XX OS
XX EP1074617-A2.
XX PN
XX 07-FEB-2001.
XX PD
XX 28-JUL-2000; 2000EP-0116126.
XX PF
XX 29-JUL-1999; 99JP-0248036.
XX PR 27-AUG-1999; 99JP-0300253.
XX PR 11-JAN-2000; 2000JP-0118776.
XX PR 02-MAY-2000; 2000JP-0183767.
XX PR 09-JUN-2000; 2000JP-0241899.
XX PA
XX (HELI-) HELIX RES INST.
XX PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
XX PI Ishii S, Sugiyama T, Makamatsu A, Nagai K, Otsuki T;
XX DR WPI, 2001-318749/34.
XX XX
XX PT Primer sets for synthesizing polynucleotides, particularly the 5602
XX PT full-length cDNAs defined in the specification, and for the detection
XX PT and/or diagnosis of the abnormality of the proteins encoded by the
XX PT full-length cDNAs -
XX PS
XX Claim 1; SEQ ID 4027; 2537pp + CD ROM; English.
XX CC
XX The present invention describes primer sets for synthesizing 5602
XX CC full-length cDNAs defined in the specification. Where a primer set
XX CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
XX CC to the complementary strand of a polynucleotide which comprises one of
XX CC the 5602 nucleotide sequences defined in the specification, where the
XX CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
XX CC of an oligonucleotide comprising a sequence complementary to the
XX CC complementary strand of a polynucleotide which comprises a 5'-end
XX CC sequence and an oligonucleotide comprising a sequence complementary to a
XX CC polynucleotide which comprises a 3'-end sequence, where the
XX CC oligonucleotide comprises at least 15 nucleotides and the combination of
XX CC the 5'-end sequence/3'-end sequence is selected from those defined in
XX CC the specification. The primer sets can be used in antisense therapy and
XX CC in gene therapy. The primers are useful for synthesizing polynucleotides,
XX CC particularly full-length cDNAs. The primers are also useful for the
XX CC detection and/or diagnosis of the abnormality of the proteins encoded by
XX CC the full-length cDNAs. The primers allow obtaining of the full-length
XX CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
XX CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to
XX CC AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632
XX CC represent oligonucleotides, all of which are used in the exemplification
XX CC of the present invention.
XX SQ
XX Sequence 796 BP; 192 A; 204 C; 202 G; 195 T; 3 other;
XX
XX Alignment Scores:
XX Pred. No.: 9, 09e-77 Length: 796
XX Score: 826.50 Matches: 170
XX Percent Similarity: 96.59% Conservative: 0
XX Best Local Similarity: 96.59% Mismatches: 6
XX Query Match: 45.94% Indels: 3
XX DB: 22 Gaps: 0
XX
XX US-09-745-506-37 (1-350) x AAH07192 (1-796)
QY 1 MetAspLeuLysAlaLeuLeuSerSerLeuAsnAspPheAlaSerLeuSerPheAlaGlu 20
DB 271 ATGAGATTGAAAGGCTCTCTCTCTCTGTAATGATCTTCATCCCTCGTGTGGAG 330
QY 21 SerTrpAspAsnValGlyLeuLeuValGluProSerProTrpThrIleValAsnThrLeu 40
DB 331 AGTTGGACAAATGTTGATTACTGTGGAGAACCAAGCCACACATCTGTAATACACTC 390

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Db	380	TGGGATAGAAGAGTGGTGGCTCAACAGACTGGGCTATCTAGAGCAGTGAATCATCATCAG	439
Qy	123	SerArgProIleHisProSerLeuSAlaProAsnTyrProThrGluGluAsnHisAlaGVal	142
Db	440	ATCCGGCCCTCTGGAAACGGAG-----	460
Qy	143	GluPheAsnValAsnTyrThrGlnAspLeuAspLysValMetSerAlaValLysGlyIle	162
Db	461	-----TTGGGTGCTCTCCGGGT---	478
Qy	163	AspGluValSerValThrSerPheSerAlaArgThrGluAsnGluGluGlnThrArgIle	182
Db	478	-----	478
Qy	183	AsnLeuAsnCysThrGlnLysAlaLeuMetGlnValValAspPheLeuSerArgAsnLys	202
Db	478	-----	478
Qy	203	GlnLeuTyrGlnLysThrGluIleLeuSerLeuGluLysProLeuLeuHisThrGly	222
Db	479	-----ACCGGA	484
Qy	223	MetGluArgLeuCysThrLeuAspGluSerValSerLeuAlaThrMetLeuAspArgIle	242
Db	485	TCCGGTAGAATAT-----ATAGAACAACAAATAGAGCTTCCACAGTGGTGAAGTCTGTG	538
Qy	243	LysArgHisLeuLysLeuSerHisIleArgGluAlaLeuGluValGlyArgThrLeuGlu	262
Db	539	CAAAAGCGCATTTAGAAACAGC---GTGCACGTTGCTCTAGGCTGGGGCCACACCCCCAG	595
Qy	263	SerGluValLysValValAlaLeuCysAlaGlySerGlySerSerValLeuGlnGlyVal	282
Db	596	ACACTCATCAACCCCTCCGCACTTGTGGCGGCTGTGAGCATCTCTCTCTGAAGGATATC	655
Qy	283	GluAlaAspLeuTyrLeuThrGluGluMetSerHisHisAspThrLeuAspAlaIaSer	302
Db	656	CAAGCGGATCTTATCATCTACCGCGCAATGTCCCATCAGAACTTCTGAGTTTATCTCAC	715
Qy	303	GlnGlyLysAsnValIleLeuLysGlnHisSerAsnThrGluArgGlyPheLeuSerAsp	322
Db	716	AACAAATACCAACCTCTCTCTGTGCAAATCATAGTAATTCAGAAAGGGTTTCTCCATGAG	775
Qy	323	LeuArgAspMetLeuAspSerHisLeuGluAsnLysIleAsnIleIleLeuSerGluThr	342
Db	776	TTTTGGCCCTATTTGGCCAAATCTTTAAATGAAGAATGCTGTGATTTGTATCTGAAGTG	835
Qy	343	AspArgAspProLeuGlnValVal	350
Db	836	GACAGAGATCTCTGTGTCACCGTG	859
RESULT 15			
ABL10022			
ABL10022	standard; cDNA; 2967 BP.		
ABL10022:			
26-MAR-2002	(first entry)		
Drosophila melanogaster	expressed polynucleotide SEQ ID NO 24548.		
Drosophila:	developmental biology; cell signalling; insecticide;		
pharmaceutical; gene; ss.			
Drosophila melanogaster.			
W0200171042-A2.			
27-SEP-2001.			
23-MAR-2001;	2001WO-0509231.		
23-MAR-2000;	2000US-191637P.		
11-JUL-2000;	2000US-0614150.		

XX	(PEKE) PE CORP NY.
PA	Venter JC, Adams M, Li PWD, Myers EW;
P1	WPI: 2001-656860/75.
DR	P-PSDB: ABB65919.
XX	New isolated nucleic acid detection reagent for detecting 1000 or more
PT	genes from Drosophila and for elucidating cell signalling and cell-cell
PT	interactions -
XX	
PS	Claim 1; SEQ ID NO 24548; 21bp + Sequence Listing; English.
CC	The invention relates to an isolated nucleic acid detection reagent
CC	capable of detecting 1000 or more genes from Drosophila.. The invention is
CC	useful in developmental biology and in elucidating cell signalling and
CC	cell-cell interactions in higher eukaryotes for the development of
CC	insecticides, therapeutics and pharmaceutical drugs. The invention
CC	discloses genomic DNA sequences (ABLI16-ABLI3051), expressed DNA
CC	sequences (ABL01840-ABLI6175) and the encoded proteins
CC	(ABB57737-ABB72072).
CC	The sequence data for this patent did not form part of the printed
CC	specification, but was obtained in electronic format directly from WIPO
CC	at ftp.wipo.int/pub/published_pct_sequences.
XX	
SQ	Sequence 2967 BP; 844 A; 651 C; 669 G; 803 T; 0 other;
	Alignment Scores:
	Pred. NO.: 6,18e-50 Length: 2967
	Score: 578.00 Matches: 118
	Percent Similarity: 51.44% Conservative: 61
	Best Local Similarity: 33.91% Mismatches: 81
	Query Match: 32.13% Indels: 88
	DB: 23 Gaps: 4
	US-09-745-506-37 (1-350) x ABLI0022 (1-2967)
QY	3 LeuLYsAlaLeuLeuSerSerLeuAAsnAPheAlaSerLeuSerPheAlaGluSerTrp 22
Db
	66 TGCGGGCTGTGGTGAAGAGCGAGAACTTTTGCTCCGACTTTGGCAGAGAATGG 122
QY	23 AspaSnValGlyLeuLeuValGluProSerProProHisThrValAsnThrlaupheU 42
Db
	126 GACAATGTGGACTCTGTATCGAACCGCACCGGAAAAACAAATGACAAAATACTATT 18
QY	43 ThrAsnAspleuthrGluGluValMetGluGluValLeuGluLysAlaAspleuile 62
Db
	186 ACTAAGCATTTAAACCGAGCCCGTAGAAGAAAGGCCCTAGAGAAGAGCGAGCTATA 24
QY	63 LeuSerTyrlHisProProllePheargPrometLysArgIlserThrTrpsnThrTryls 82
Db	:::::..... :::: ::::
	246 ATCAAGCTATCATCCGCCAATTTCAAGCCCCCTACCAGGATTAACGACATGTGAAG 30
QY	83 GluArgLeuValIleArgAlaLeuGluAsnArgValGlyIleTyrSerProHisThrAla 10
Db ::::
	306 GAGGCGGTGGGGCAGCATGTCGGCCACAGATATGACCTTGACTCGGCCACAGGCG 36
QY	103 TyrAspAlaAlaProGlnGlyValAsnAsnTrpLeuAlaLysGlyLeuGlyLacysThr 122
Db
	366 TGGGATTAAGAAGAGTGTGGCGCTCAACGACTGCTATCTAAGGACGATGAATTCATCAGC 42
QY	123 SerarGProIleHIsProSerLySAlaProAsnTyrrProThrGluGlyAsnHisArgVal 14
Db
	426 ATCGCGCCCTCGGAACCGAG----- 44
QY	143 GluPheAsnValAsnTyrrThrGlnAspleuAspLysValMetSerAlaValLysGlyIle 16
Db ::::
	447 -----TTGGGGTCTCTCCGGGT--- 46
QY	163 AspGlyValSerValThrSerPheSerAlaArgThrGlyAsnGluGluGlnThrArgIle 18
Db	----- 46


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OY 183 AsnLeuAsnCysThrGlnLysAlaLeuMetGlnValValAspPheLeuSerArgAsnLys 202
Db 464 ----- 464
OY 203 GlnLeuTyrglnLysThrGlnLeuSerLeuGlnLysProLeuLeuLeuHisThrGly 222
Db 465 -----ACCGGA 470
OY 223 MetGlyArgLeuCysThrLeuAspGlnSerValSerLeuAlaThrMetIleAspArgIle 242
Db 471 TCCGGTAGATAT-----ATAGAAACCAAAATGAGACTTCCACAGGTGTGAGTCTCTG 524
OY 243 LysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyValGlyArgThrLeuGlu 262
Db 525 CAAAGCCGATTAGAAACAGC--GTGCAGGTGTCTAGCTGTGGGCCACACCCCAAG 581
OY 263 SerGlnValLysValValAlaLeuCysAlaGlySerGlySerSerValLeuGlnGlyVal 282
Db 582 ACACATCATCCAAATCCGCGCATTTGTGCGGCTCTGAGCATCTCTGTGAAGGTATC 641
OY 283 GluAlaAspLeuTyrlLeuThrGlyGluMetSerHisHisAspThrLeuAspAlaIleSer 302
Db 642 CAGCGGATCTTATCATTAACCGCGAAATGTCCCATCAGCAAGTCTGTGAGTTACTCAC 701
OY 303 GlnGlyIleAsnValIleLeuCysGlnHisSerAsnThrGlnArgGlyPheLeuSerAsp 322
Db 702 AACATACCAACCGCTTCTCTCTGCATCATAGTAAATCAGAAAGGGTTTCTCCATGAG 761
OY 323 LeuArgAspMetLeuAspSerHisLeuGlnAsnLysIleAsnIleLeuSerGluThr 342
Db 762 TTTGGCCATATTTGGCCAAATCTTAAATGAAGAATGCCGTGATTGTATCTGAAGTG 821
OY 343 AspArgAspProLeuGlnValVal 350
Db 822 GACAAAGGATCTCTGTGTCACCGTG 845
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Job time : 274 secs

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